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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/435,854	11/08/1999	TIMOTHY R. PRYOR	P00891US3	P00891US3 5796	
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LARSON & TAYLOR			ABDULSELAM, ABBAS I		
SUITE 900 1199 NORTH FAIRFAX STREET ALEXANDRIA, VA 22314		ART UNIT	PAPER NUMBER		
			2677	2677	
			DATE MAILED: 07/13/2005	;	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/435,854	PRYOR				
Office Action Summary	Examiner	Art Unit				
	Abbas I. Abdulselam	2677				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply of the period for reply is specified above, the maximum statutory period we failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	86(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 17 Fe	ebruary 2005.					
2a) This action is FINAL . 2b) ⊠ This	This action is FINAL . 2b)⊠ This action is non-final.					
3) Since this application is in condition for allowan	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
 (4) ☐ Claim(s) 1-5,7,9-12,15-18,20-22,27-32,34-40,4 (4a) Of the above claim(s) is/are withdraw (5) ☐ Claim(s) 21,22 and 44-50 is/are allowed. (6) ☐ Claim(s) 1-5,7,9-12,15-18,20,27-29,31,32,34-4 (7) ☐ Claim(s) 30,43 and 61 is/are objected to. (8) ☐ Claim(s) are subject to restriction and/or 	vn from consideration. 0,42,51-54 and 56-60 is/are rejec					
Application Papers						
9) The specification is objected to by the Examiner	·.					
10) The drawing(s) filed on is/are: a) acce	0) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the o	frawing(s) be held in abeyance. See	37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Example 11.						
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list of 	have been received. have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage				
Attachment(s)						
1) X Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail Da					
Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		atent Application (PTO-152)				

Application/Control Number: 09/435,854

Art Unit: 2674

DETAILED ACTION

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1. This office action is in response to a communication filed on 02/27/05. Claims 1-5, 7, 9-12, 15-18, 20-22, 27-32, 34-40, 42-54 and 56-61 are pending. Claims 6, 8, 13-14, 19, 23-26, 33, 41 and 55 are canceled.

Allowable Subject Matter

- 2. Claims 21-22 and 44-50 are allowed.
- 3. Claims 30, 43 and 61 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 4. The indicated allowability of claims 1-5, 7, 9-12, 15-18, 20, 27-29, 31-32, 34-40, 42, 51-54 and 56-60 is withdrawn in view of the newly discovered reference(s) to Mitsura (Japanese publication # 63-167923). Rejections based on the newly cited reference(s) follow.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1, 3-4, 7, 38-40 and 56 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mitsura (Japanese publication # 63-167923).

Regarding claims 1, 5 and 27, Mitsura teaches a method of computer based interactive gaming comprising the steps of providing a computer controlled display screen having an extensive surface; (see the abstract, display screen, 4) electro-optically determining, using at least one TV camera, (see the abstract, CCD camera (7) and display screen) a position of one or more points on a game player (see the abstract, hand (5)); providing data input relative to the determined position to said computer; (see the abstract, coordinate input position) and controlling a displayed image provided on said screen with said computer in response to said determined position of said game player (see the abstract, images (5a, 14a,) cursor and position information).

Mitsuru does not specifically teach "position of one or more point on a game player such that one or more points is recognized by color or shape". Mitsura on the other hand teaches an image 14a of a fingertip 14 that is scanned as a shadow data for indicating a coordinate input position (see the abstract).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to utilize Mitsura's fingertip (14) with respect to the image of the hand (5) shown in the figure of the abstract because the use of fingertip helps prepare position information as taught by Mitsura (see the last sentence of the abstract).

Regarding claims 3, 38-40 and 56, Mitsura teaches said determining step is accomplished with only one TV camera (See the abstract, CCD camera)

Regarding claim 4, Mitsura teaches said displayed image is substantially lifesize (see the abstract, 14a).

Regarding claim 7, Mitsura teaches location of point on an article of clothing worn by a person id determined (see the abstract (5) and position determination)

Regarding claim 38, Mitsura teaches said one or more points is located on the player's head, finger, hand or foot (see the abstract, hand 5).

6. Claims 2, 9-12, 15-18, 20, 22, 28-29, 31-32, 34-37, 42, 51-54 and 57-60 are rejected under 35 U.S.C. 103(a) as being unpatentable over Mitsura (Japanese publication # 63-167923) in view of Hisano et al. (USPN 4654872).

Regarding claim 2, Mitsura does not teach the determining step being accomplished using two cameras.

Hisano on the other hand teaches a system for recognizing a three-dimensional object, the system including TV cameras that picks up images of the object (see the abstract). For example, Hisano teaches that images of an object are formed by the optical systems of two TV cameras (20R, 20L) such that the object has a Afeature point≅, Q (col. 2, lines 26-44) and Fig. 2 (20R, 20L).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Mitsura's image input system shown in the figure of the abstract to include Hisano's use of two camera (20R, 20L) as configured in Fig. 2 because the use of two cameras helps identify various points on the image corresponding to an object as taught by Mitsura (col. 2, lines 26-36).

Regarding claim 9-12, 15, 18, 22, 31-32, 35-36, 53-54 and 58-59, Hisano teaches the use of TV along with cameras, by which images of the object are picked up from at least three directions (see the abstract, TV and three dimensional)

Regarding claim 16-17, 20, 28-29, 34, 37, 42, 51-52, 57 and 60, Hisano teaches that based on the positions of the mutually corresponding feature points on the images, the position of the corresponding feature point on the object is calculated. Hisano further teaches that shape, size, position or the like of the object can be recognized by summing up the items of data relating to the positions of a multiplicity of feature points on the object (col. 1, lines 66-67 and col. 2, lines 1-5).

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Abbas I. Abdulselam whose telephone number is (571) 272-7685. The examiner can normally be reached on Monday through Friday from 9:A.M. to 5:30 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bipin Shalwala can be reached on (571) 272-7681. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

PATRICK N. EDOUARD
SUPERVISORY PATENT EXAMINER

Abbas abdulselam

Examiner

Art Unit 2674

July 9, 2005